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Quanxi JIA

Fellow: Los Alamos National Laboratory
Fellow: American Physical Society
Fellow: American Ceramic Society
Fellow: American Association for the Advancement of Science

EDUCATION

09/1991	**Ph.D.** in Electrical & Computer Engineering, SUNY at Buffalo, NY
04/1985	**M.S.** in Electronic Engineering, Jiaotong Univ., Xian, China
07/1982	**B.S.** in Electronic Engineering, Jiaotong Univ., Xian, China

PROFESSIONAL EXPERIENCE

09/2003 - present	Laboratory Fellow, Los Alamos National Laboratory (LANL)
12/2009 - present	Thrust Leader, Center for Integrated Nanotechnologies, LANL
10/1997 - 12/2009	Team Leader, Superconductivity Technology Center, LANL
01/1996 - present	Technical Staff Member, LANL
08/1993 - 01/1996	Postdoctoral Fellow, LANL
04/1993 - 12/1993	Visiting Associate Professor, Kumamoto University, Japan
09/1991 - 08/1993	Research Associate, State University of New York (SUNY) at Buffalo
09/1988 - 08/1991	Teaching Assistant, SUNY at Buffalo
02/1988 - 08/1988	Research Associate, SUNY at Buffalo
12/1987 - 01/1988	Assistant Professor, Jiaotong Univ., Xian, China
05/1985 - 11/1987	Research Associate, Jiaotong Univ., Xian, China

FUNDED PROJECTS, PATENTS, PUBLICATIONS, &PRESENTATIONS

- More than 40 funded projects
- 39 US patents issued
- More than 380 peer reviewed journal articles
- More than 80 invited conference presentations and seminars
- 8 book chapters, and over 60 refereed/un-refereed proceeding articles

HONORS

- Fellow of American Association for the Advancement of Science (2011)
- Postdoctoral Distinguished Mentor Awards, LANL (2010)
- Fellow of American Ceramic Society (2010)
- Adjunct Professor, State Univ. of New Mexico, Las Cruces, NM (2010 - present)
- Fellow of American Physical Society (2009)
- The Outstanding Women's Career Development Mentoring Awards, LANL (2008)
- The Federal Laboratory Consortium for Technology Transfer Awards (2008)
- Adjunct Professor, Jiaotong Univ., Xian, China (2008 - present)
- Asian-American Engineer of the Year Award (2005)

- Laboratory Fellow of Los Alamos National Laboratory (2003)
- R&D 100 award - Flexible Superconducting Tape (2003)
- Los Alamos National Laboratory Achievement Award (2000)
- R&D 100 award - Underground Radio (1998)
- Listed in *Who's Who in Science and Engineering*
- Listed in *American Men and Women of Science*
- Award for Excellence in Industrial Partnerships at LANL (1996)
- National Link Foundation Fellowship Award at SUNY (1990 - 1991)
- Distinguished Teaching Award at Jiaotong University (1986 - 1987)

RESEARCH INTERESTS

- Synthesis and structure-property relationships of nanostructured materials, multifunctional materials, thin films and multilayer systems. In particular, the growth of nanocomposite and multilayer metal-oxide thin films, the mechanism of film growth, optical/electrical properties of the films, and device applications of the films
- Novel deposition techniques for the growth of electronic materials with controlled structural and transport properties
- Development and fabrication of high-temperature superconducting films for coated conductors and devices, device applications of high temperature superconductor materials
- Development and fabrication of novel solid-state microelectronic/electro-optic devices, research on advanced semiconductor devices and materials
- Development and study of energy materials and devices

PROFESSIONAL SERVICES

- Have served as reviewer for the following technical journals: *Science*, *Adv. Mate., Adv. Functional Mater., Appl. Phys. Lett., J. Appl. Phys., J. Vac. Sci. Technol., J. Mater. Res., Integrated Ferroelectrics, Ferroelectrics, IEEE Trans. Appl. Supercond., IEEE Electron Devices Lett., Phil. Mag. B, Physica B, Physica C, J. Am. Ceramic Soc., Thin Solid Films, J. Phys. Chem. B, Chem. Mater., J. Am. Chem. Soc., ACS Nano, Small, Angew. Chem. Int. Ed*., *J. Phys. Chem., Phys. Status Solidi (a), Appl. Surf. Sci., Electrochem. Solid-State Lett., Int. J. Photoenergy, Supercond. Sci. Technol., J. Crystal Growth, Crystal Growth & Design, and Rev. Sci. Instrum.*
- Have sat on the Editorial Board for *J. Semiconductors*, IOP Publishing (2010 – present)
- Have sat on the International Editorial Board for *Trans. Electrical & Electronic Materials*, Korean IEEE (2010 – present)
- Have served in the Executive Committee of the Electronics Division, American Ceramic Society (ACerS): Secretary-Elect (2008 - 2009); Secretary (2009 - 2010); Vice-Chair & Program Chair (2010 - 2011); Chair-Elect (2011 - 2012)
- Served as Chair of Award Committee of the Electronics Division, ACerS (2007 - 2008)
- Have served in LANL Fellows Organization: Secretary (2009 - 2010); Deputy Coordinator (2010 - 2011); Coordinator (2011 - 2012)
- Was Chair of LDRD-DR Sci./Eng. Advisory Panel (2010); Member of the Proposal Review Committee for the LDRD-ERs (1996, 1997, 2000, 2001)

- Was a member of the Postdoctoral Selection Committee at LANL (2002 – 2005)
- Sat on the Division Deputy Leader Selection Committee for Materials Science & Technology Division at LANL (2003)
- Served in the NSF MRI/IMR Program Review Panel (2000)
- Have been a proposal reviewer for NSF, BES/DOE, SBIR, and Singapore funding agencies
- Was an external reviewer for the Korea Science Prizes (2003)
- Have served in the organizing committees of over 20 international Symposia/conferences

TEACHING AND MENTORING

- Have supervised 25 postdoctoral and graduate students
- Have been supervising and mentoring college and high school interns

MEMEBERSHIPS

American Physical Society (APS) American Ceramic Society (ACerS)
Materials Research Society (MRS) Institute of Electrical & Electronics Engineers (IEEE)
American Association for the Advancement of Science (AAAS)